

ITS ANALYST

DISTINGUISHING FEATURES

The fundamental reason the ITS Analyst exists is to integrate Intelligent Transportation Systems into the community in the Transportation Department. This classification does not supervise. Work is performed under general direction by the Traffic Engineering Director. The ITS Analyst is distinguished from the ITS Technician by developing and planning to incorporate ITS into the City.

ESSENTIAL FUNCTIONS

Learns and keeps abreast of the latest ITS technologies and innovations. Quickly becomes proficient in the day-to-day operations of these technologies when deployed.

Develops, monitors, and updates traffic signal timing plans. Implements city-wide signal coordination plans using the central traffic signal computer system to ensure correspondence with prevailing traffic patterns, construction activity, and newly constructed roadways.

Designs and implements responsive and adaptive traffic signal timing networks.

Observes and manipulates multiple live video images to constantly evaluate traffic problems and maximize capacity of existing transportation systems.

Integrates new technologies with existing systems and resolves any compatibility problems.

Uses innovative problem solving techniques.

Conducts in-field observations to test traffic signal timing programs and related ITS operations.

Prepares analytical studies and makes verbal and written recommendations for innovative changes to transportation systems. Implements changes to traffic systems to deliver efficient and cost effective superior service.

Assists with engineering specification design and implementation of a variety of ITS technologies.

May assist in the repair or design of ITS equipment.

MINIMUM QUALIFICATIONS

Knowledge, Skills, and Abilities

Knowledge of:

of traffic engineering principles, telecommunications, current ITS theories and practices, NTCIP architecture, computerized traffic signal systems operations, and familiarity with different systems and methods for traffic signal timing – including adaptive and responsive.

Ability to:

Read and interpret blueprints and schematic drawings.

Visually distinguish the full color spectrum.

Listen and effectively communicate ideas, technical advice, recommendations in one-on-one, small group and large group settings through oral, visual and written communication. Prepares quality written materials.

Produce written documents with clearly organized thoughts using proper sentence construction, punctuation and grammar.

Make oral and written presentations to other City Departments, Transportation Commission and other City Boards and Commissions.

Work cooperatively with other City employees and the general public

Operate a computer and a variety of office equipment using continuous and repetitive arm, hand and eye coordination.

Education & Experience

Any combination of education and experience equivalent to a Bachelor's degree in Traffic Engineering, Civil Engineering, Computer Science or a related field and a minimum of three years experience with computerized traffic signal systems including video monitoring systems, automated traffic counting systems, responsive and adaptive traffic signal timing, and traveler information systems. Must obtain and possess a valid standard Arizona driver's license with no major driving citations in the last 39 months.

FLSA Status: Exempt

HR Ordinance Status: Unclassified